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1. H-SB014.2-005: Status Indicator for Downed Power Lines

Release Date: 04-01-2014Open Date: 04-17-2014Due Date: 05-21-2014Close Date: 05-21-2014

OBJECTIVE: Develop an indicator, visual or otherwise, for electric power distribution cables that allow nearby personnel to determine whether a downed power line is energized or not, creating a safer environment and facilitating a more rapid recovery following an event. DESCRIPTION: The impact of severe weather events on critical infrastructure can have devastating impacts. With rega ...

SBIR Department of Homeland Security

2. H-SB014.2-006: Field Detection and Analysis for Fire Gases and Particulates

Release Date: 04-01-2014Open Date: 04-17-2014Due Date: 05-21-2014Close Date: 05-21-2014

OBJECTIVE: Develop a hand-held or "man portable" device that will detect and quantify levels of toxic gases, vapors, and particulates commonly found in the post-fire environment. DESCRIPTION: Fire Investigators and other First Responders involved in a post-fire investigation require the ability to detect, monitor, and analyze the potential hazard fire gases and particulates ...

SBIR Department of Homeland Security

3. 9.01: Cyber-Physical Systems

Release Date: 02-19-2014Open Date: 02-19-2014Due Date: 05-02-2014Close Date: 05-02-2014

DOC SBIR 2014-NIST-SBIR-01 Residential Heat Pump Fault Detection and Diagnostic Datalogger 9.01 DOC SBIR 2014-NIST-SBIR-01 ...

SBIR Department of Commerce

4. 9.01.01.73-R : Residential Heat Pump Fault Detection and Diagnostic Datalogger

Release Date: 02-19-2014Open Date: 02-19-2014Due Date: 05-02-2014Close Date: 05-02-2014

A low cost, modular system for monitoring and controlling a process or environment is applicable to a wide variety of commercial and consumer-based endeavors. The ability to measure a quantity and then affect a change to control that quantity, or a related quantity, is highly desirable in an innumerable number of scenarios whether it be on the manufacturing plant floor or even within the home. Thi ...

SBIR Department of Commerce

5. 9.02: Cybersecurity

Release Date: 02-19-2014Open Date: 02-19-2014Due Date: 05-02-2014Close Date: 05-02-2014

DOC SBIR 2014-NIST-SBIR-01 Cryptographic Acceleration for Border Gateway Protocol Security (BGPSEC) Privacy Preserving Tools for Federated Authentication Models Secure Email Agent Using the Domain Name System (DNS) as a Trust Infrastructure Silicon Single ...

SBIR Department of Commerce

6. 9.02.01.77-R : Cryptographic Acceleration for Border Gateway Protocol Security (BGPSEC)

Release Date: 02-19-2014Open Date: 02-19-2014Due Date: 05-02-2014Close Date: 05-02-2014

The Border Gateway Protocol (BGP) was initially developed in 1989 (RFC 1105 [1]) and last refined in 2006 to its current version BGP-4 (RFC 4271 [2]). Because the protocol itself does not provide any notion of security, more and more successful attacks against the protocol have been witnessed in recent years [3][4]. The Internet Engineering Taskforce (IETF) is currently developing two mechanisms w ...

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7. 9.02.02.77-R : Privacy Preserving Tools for Federated Authentication Models

Release Date: 02-19-2014Open Date: 02-19-2014Due Date: 05-02-2014Close Date: 05-02-2014

Legacy Internet communication protocols were designed for secure communication in the Dolev-Yao model. This model consists of two communicating parties and an adversary who can overhear, intercept, and synthesize any message. In this paradigm, the legitimate communicating parties only send messages to each other. No messages are sent to the third party, who is an adversary intent on preventing the ...

SBIR Department of Commerce

8. 9.02.03.77-R : Secure Email Agent Using the Domain Name System (DNS) as a Trust Infrastructure

Release Date: 02-19-2014Open Date: 02-19-2014Due Date: 05-02-2014Close Date: 05-02-2014

Email is widely used for Internet communication both in dialogs between people and one-way messaging and notification systems (e.g., Email from your bank noting a deposit). However, email is inherently insecure and often spoofed by attackers looking to impersonate another user, or institution, in order to trick a victim to download malware or view a malicious site. This type of attack (often calle ...

SBIR Department of Commerce

9. 9.02.04.68-R : Silicon Single-Photon Avalanche Diodes with Detection Efficiency that Exceeds 95 %

Release Date: 02-19-2014Open Date: 02-19-2014Due Date: 05-02-2014Close Date:

05-02-2014

Recent advances in quantum communications and quantum random number generation have identified the critical need for detectors with single-photon detection efficiency above bounds that are determined by information theory. Additional losses in any preceding optical components require that the efficiency of the subsequent detectors be even higher. Devices of this type may be used in verifiable rand ...

SBIR Department of Commerce

10. [9.03: Health Care](#)

Release Date: 02-19-2014Open Date: 02-19-2014Due Date: 05-02-2014Close Date: 05-02-2014

DOC SBIR 2014-NIST-SBIR-01 Instrument to Detect Aerosolized-Droplet Dose Delivery of Vaccines Production of NIST/UCSF Breast Phantom for Magnetic Resonance Imaging (MRI) 9.03 DOC SBIR 2014-NIST-SBIR-01 ...

SBIR Department of Commerce

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